



Microbead Platform Assay Process

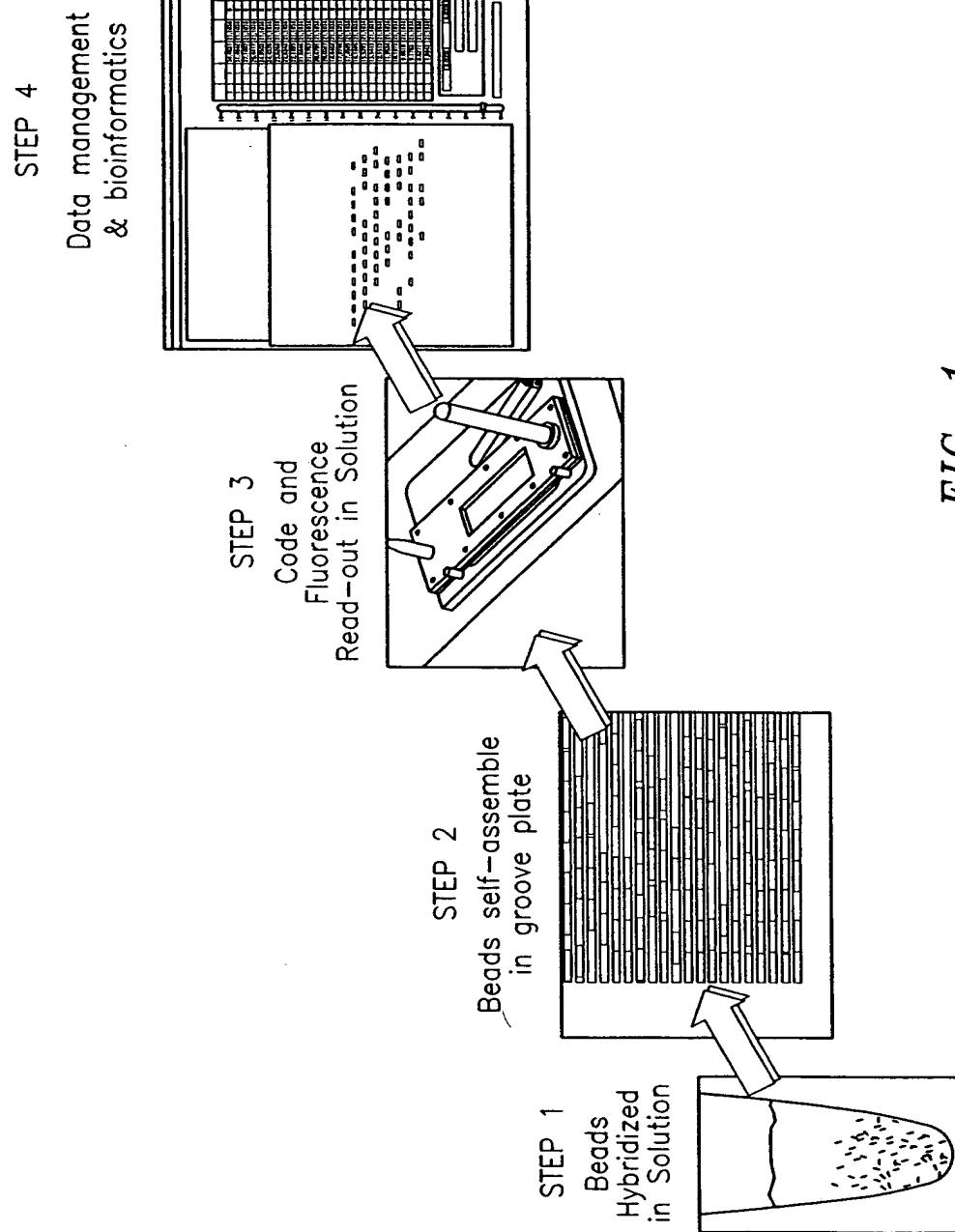
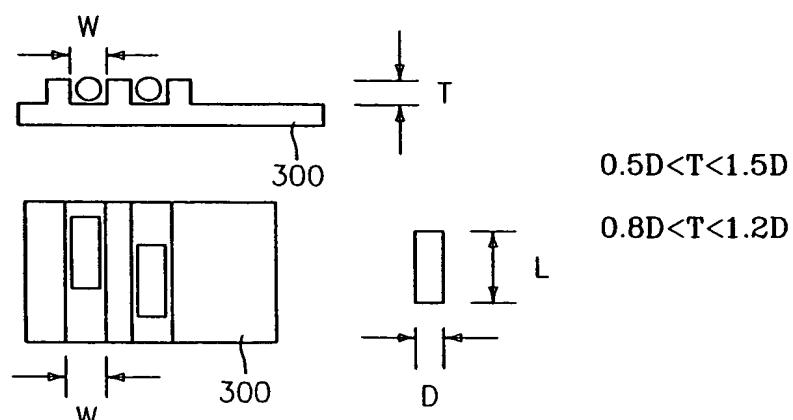
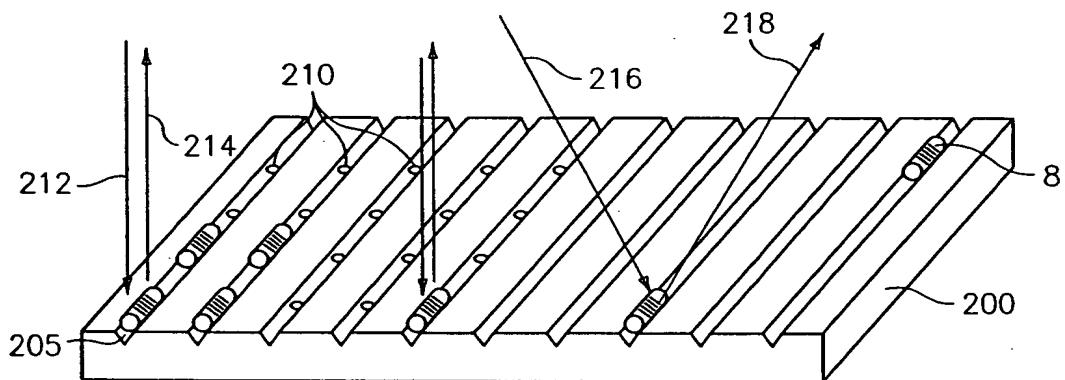
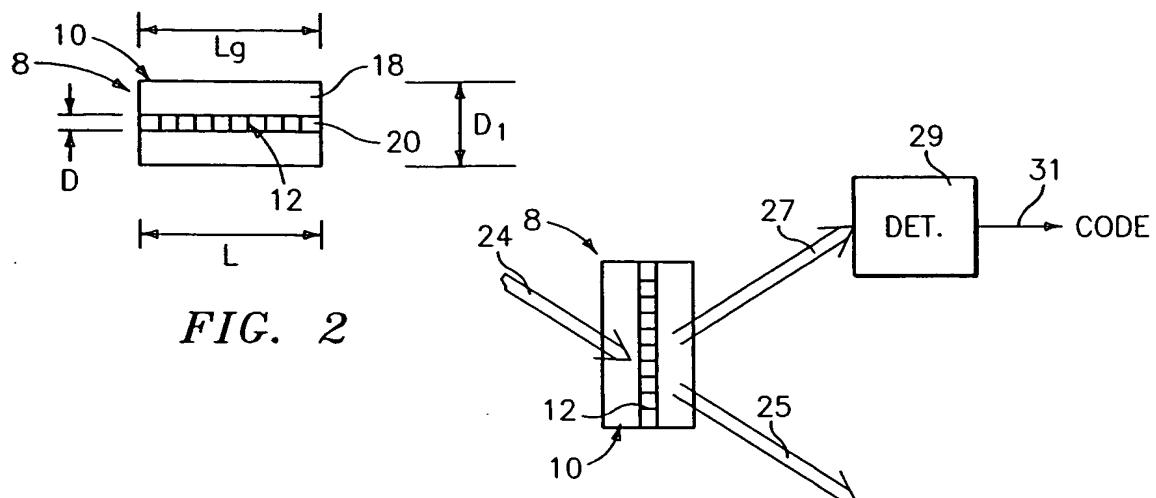


FIG. 1



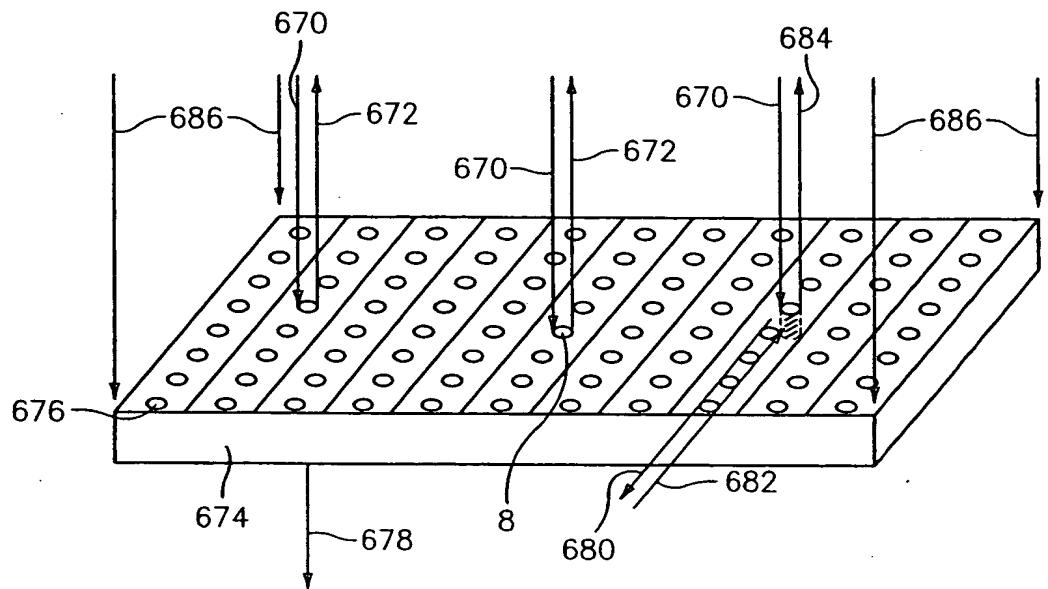


FIG. 6

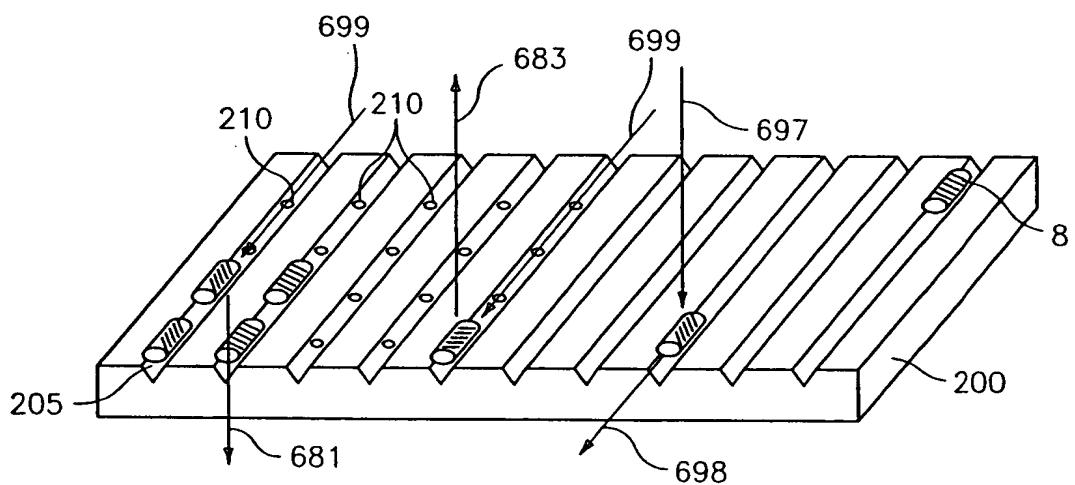
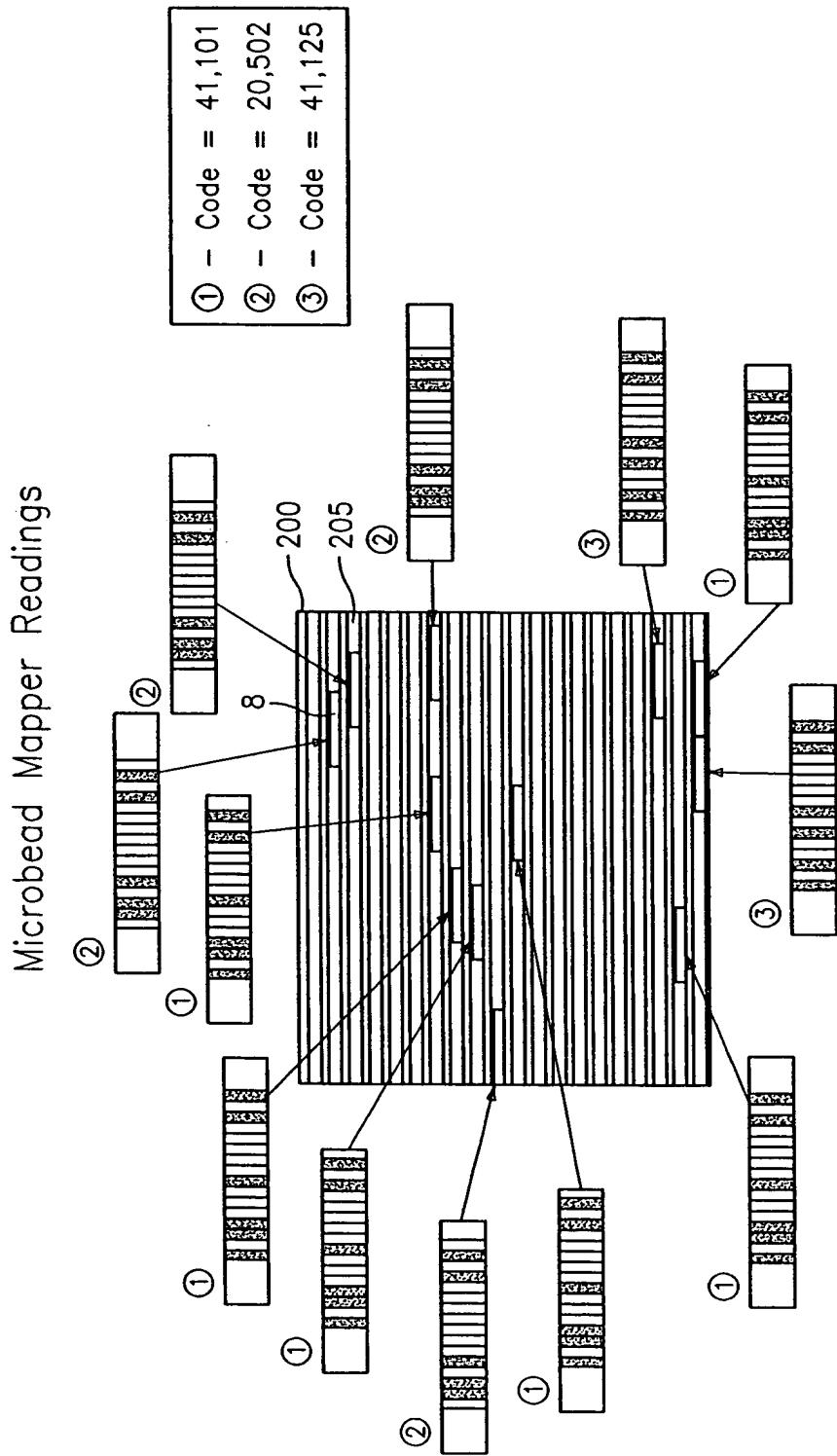


FIG. 7



- Three different codes in this set (16 bit, binary symbology)
- Each code can have a different oligo attached

FIG. 8

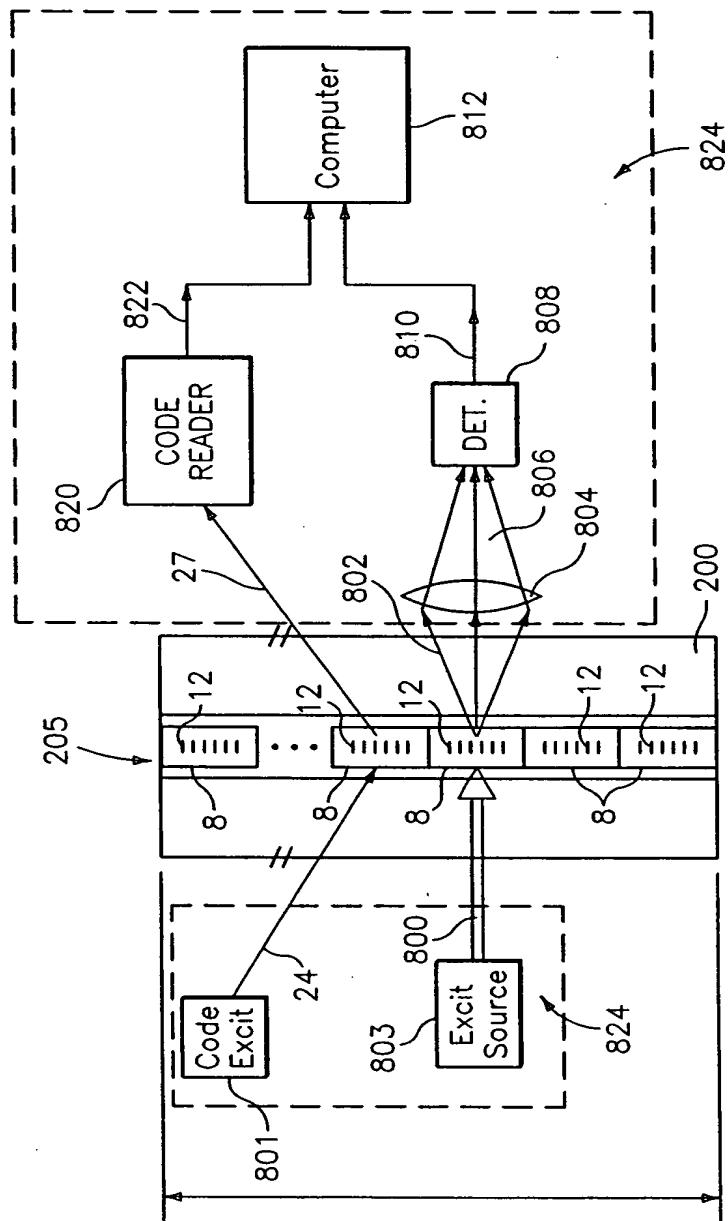


FIG. 8a

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Open Plate Format

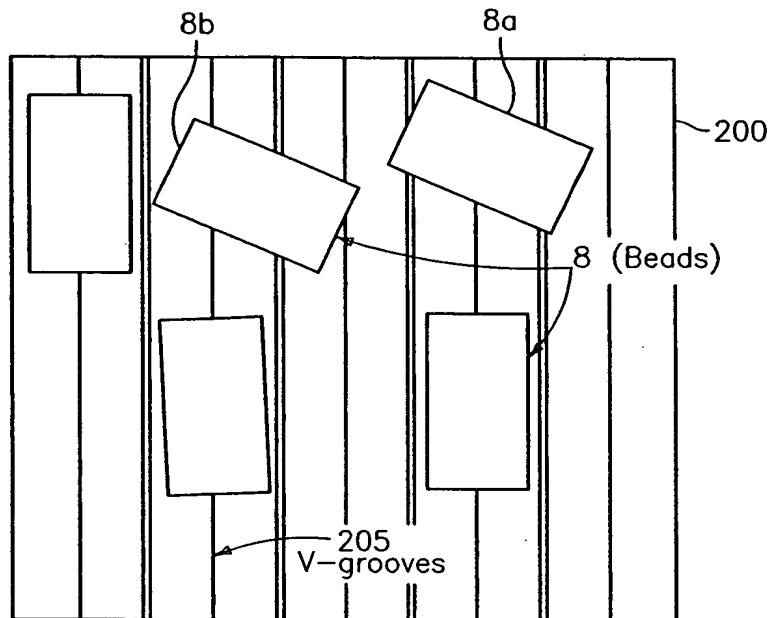


FIG. 9

Two zone cuvette

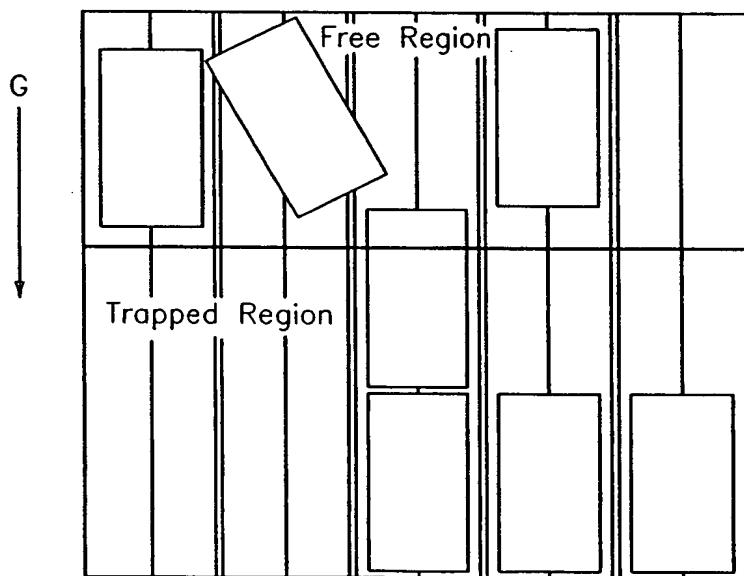


FIG. 17

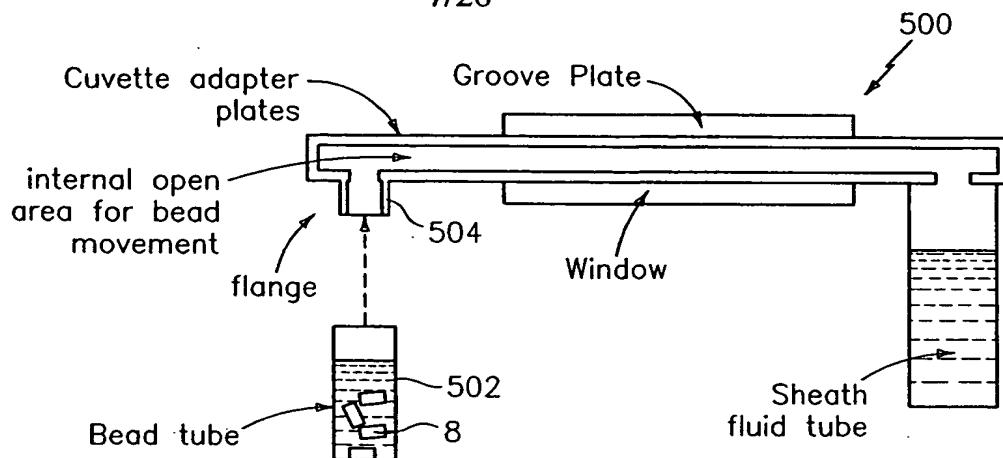


FIG. 10

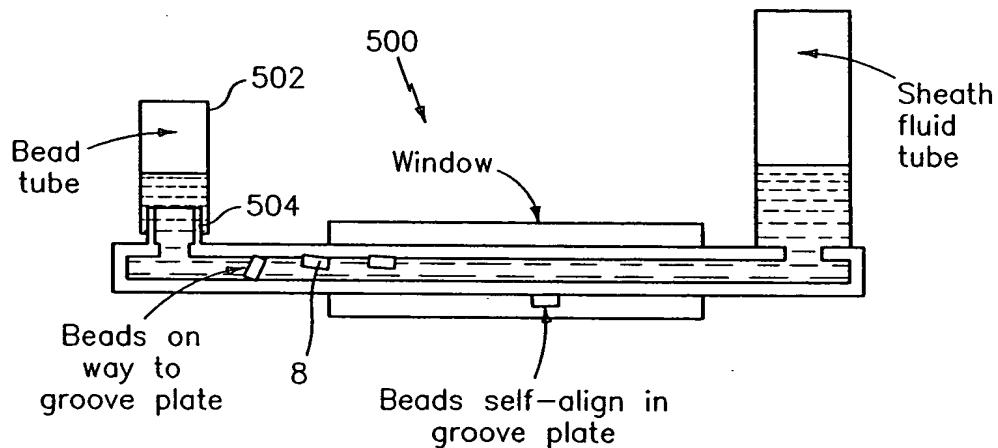


FIG. 11

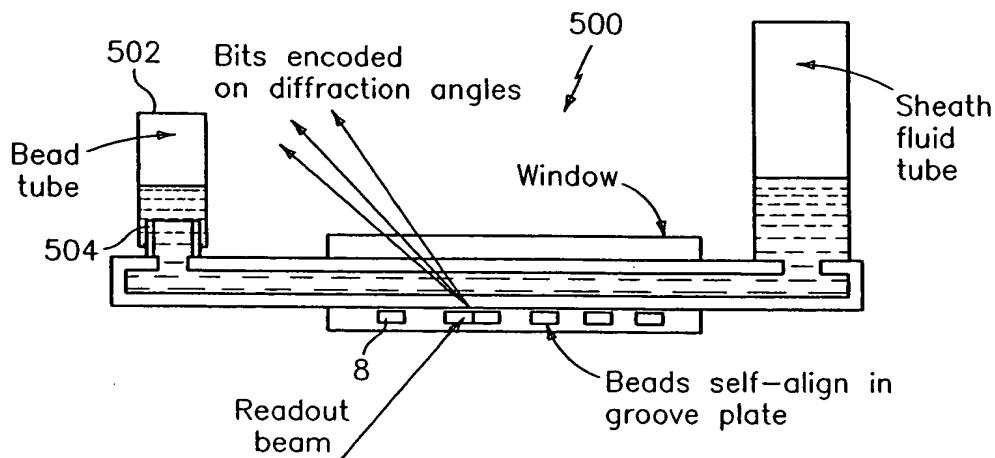


FIG. 12

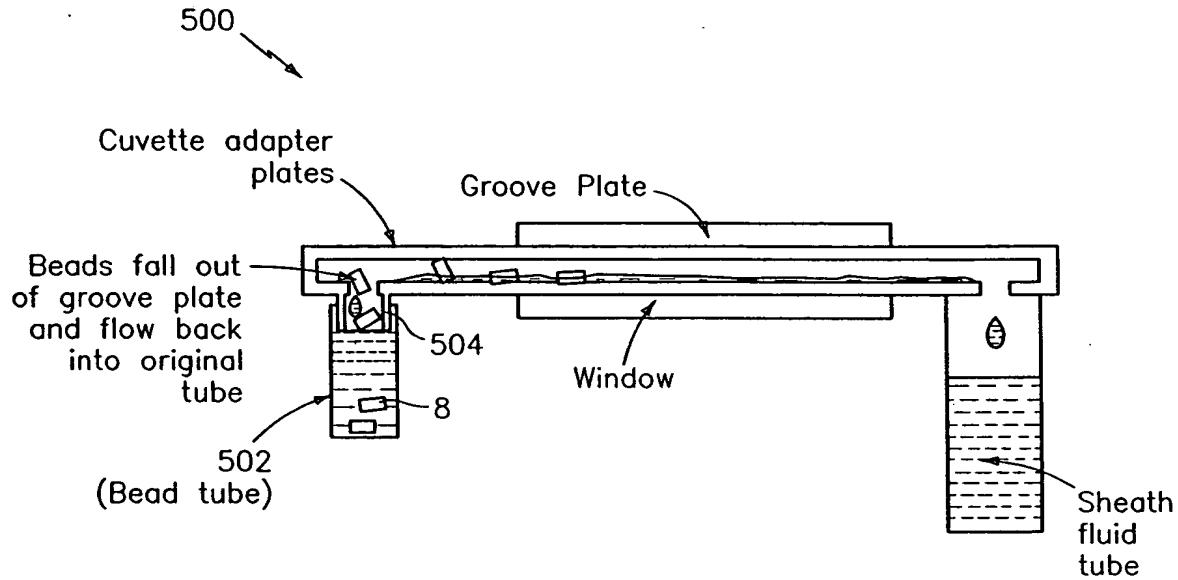


FIG. 13

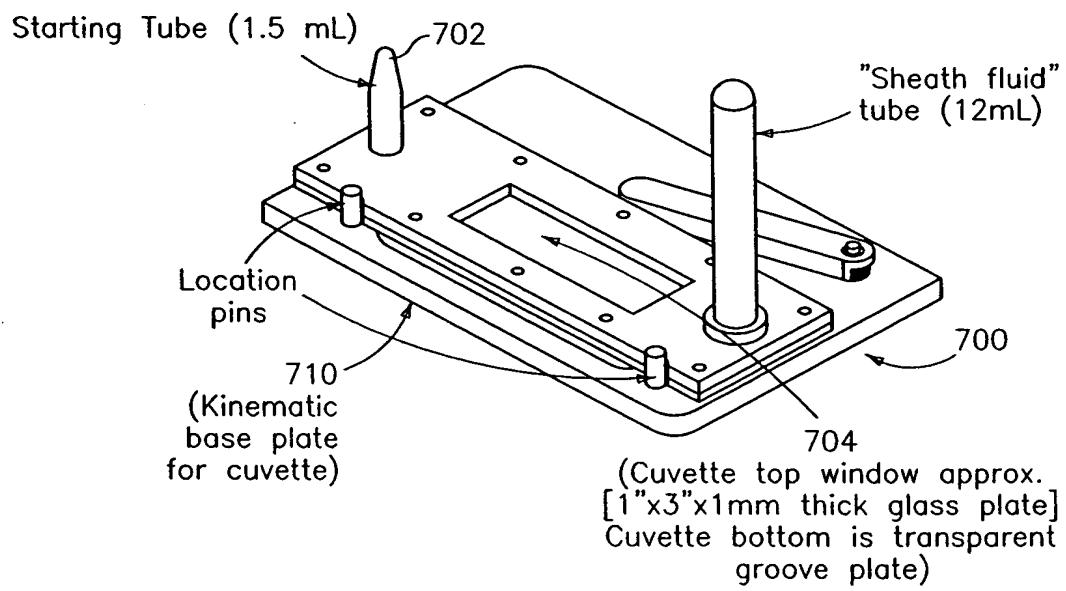


FIG. 14

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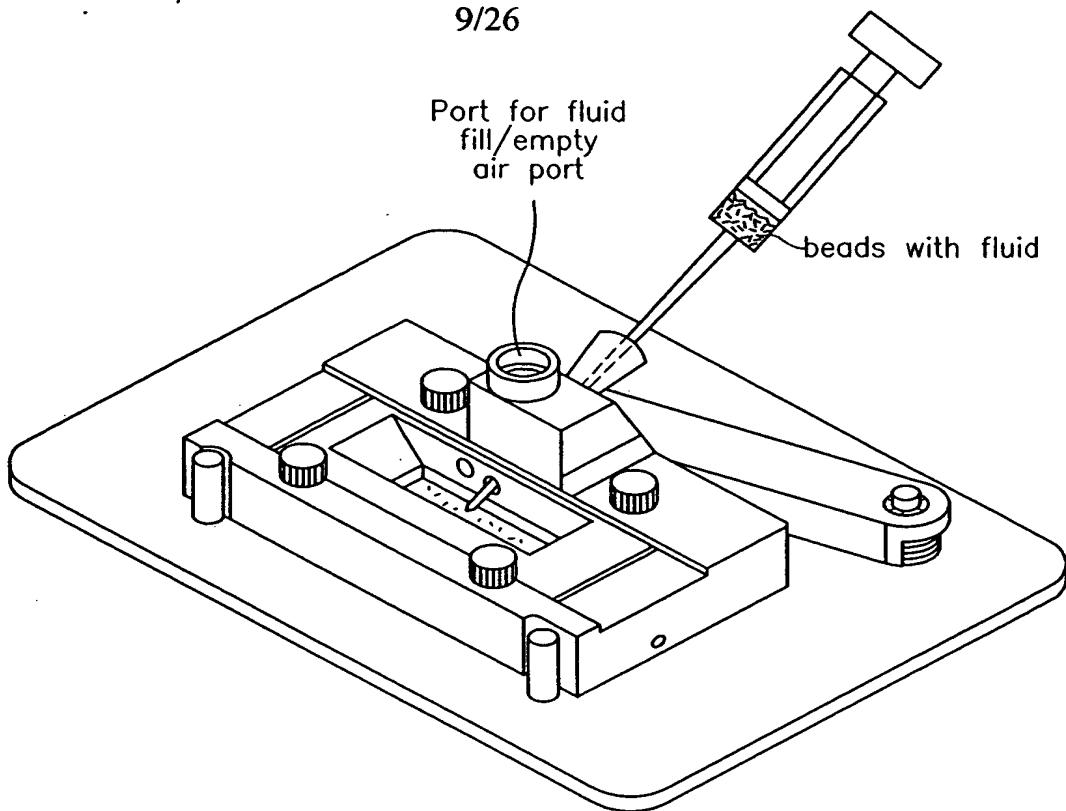


FIG. 15

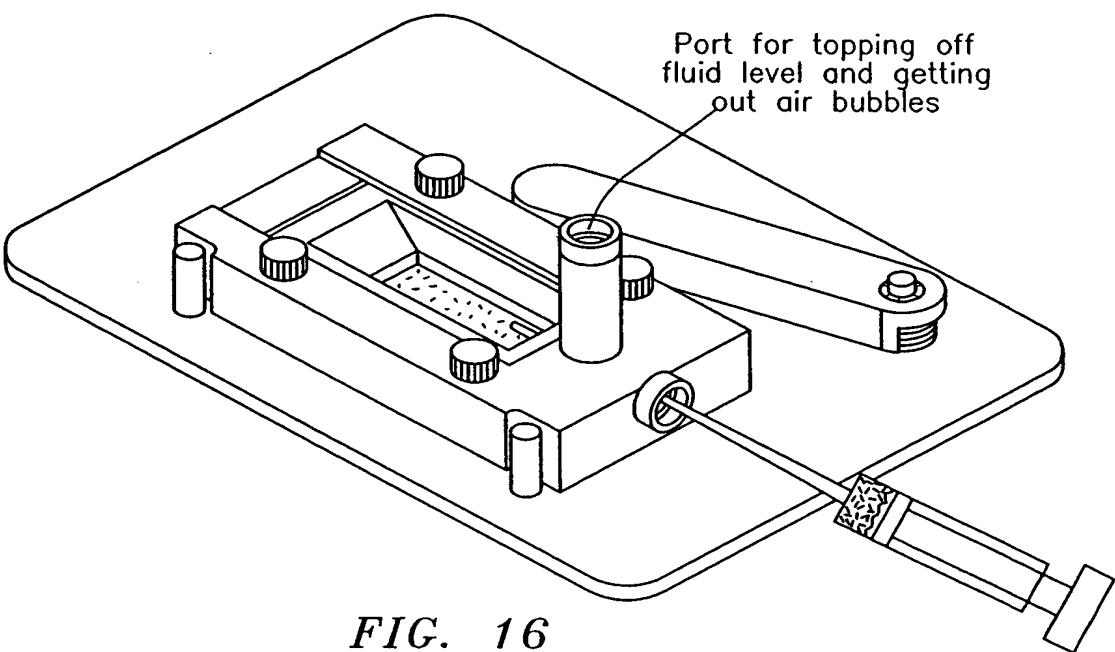


FIG. 16

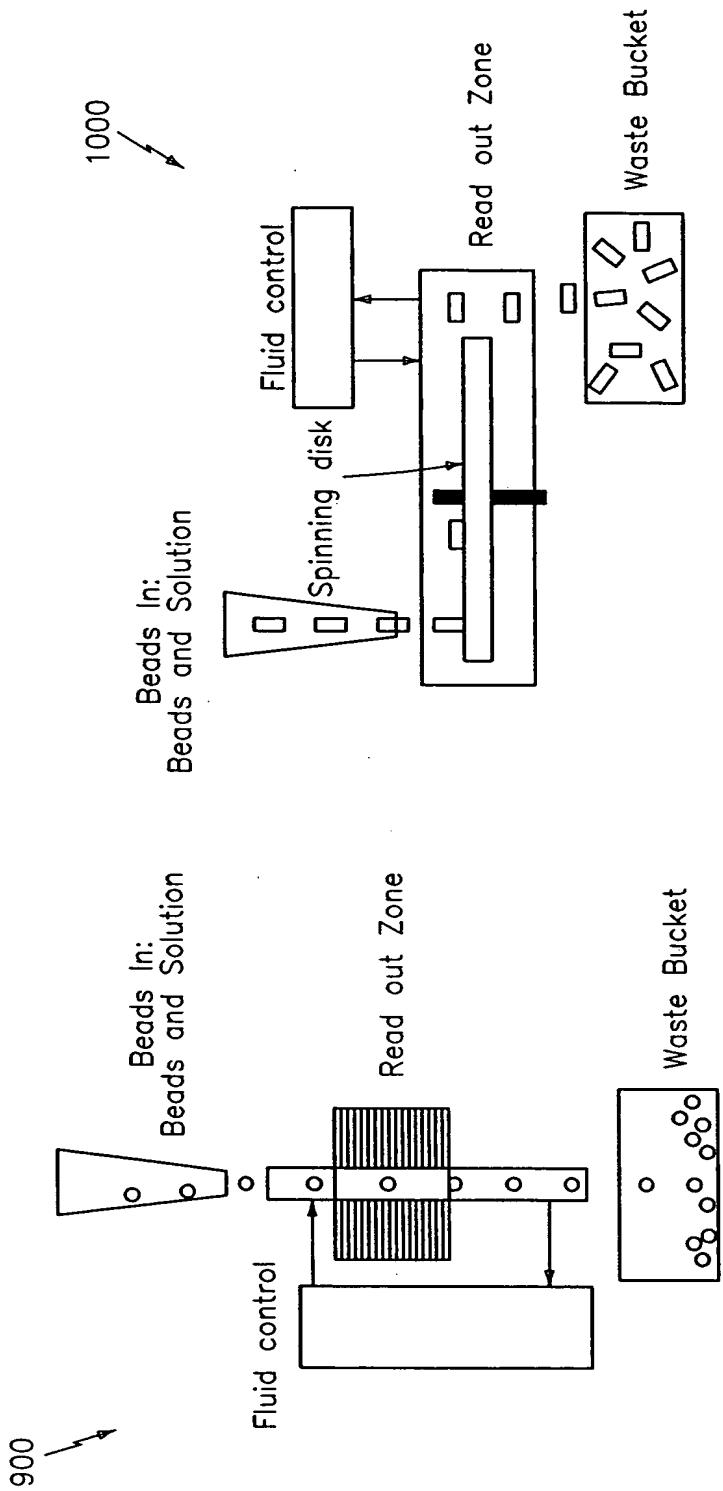


FIG. 18(a)

FIG. 18(b)

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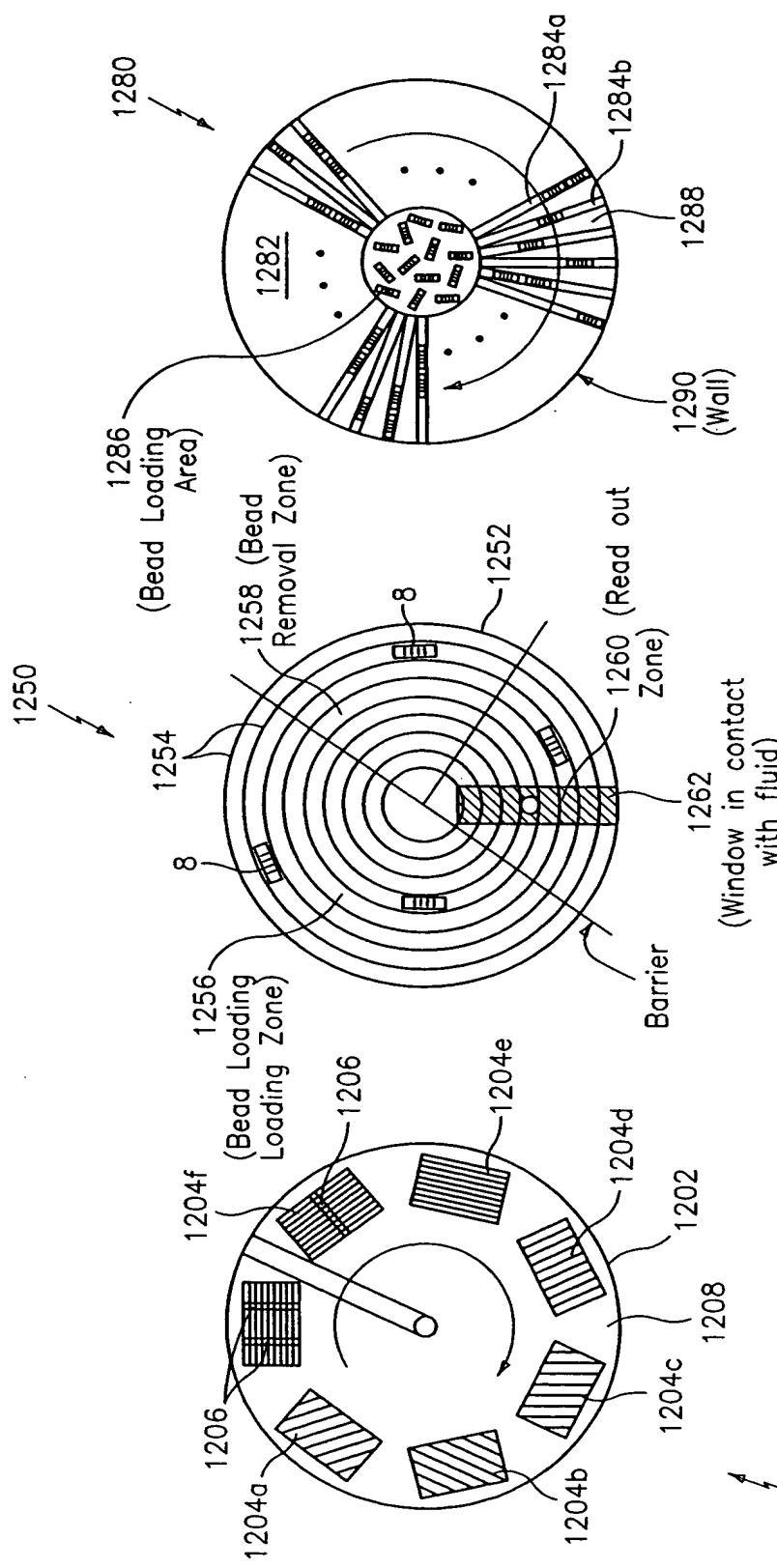


FIG. 19(b)

FIG. 19(a)

FIG. 19(c)

"Cytometer-like" bead reader

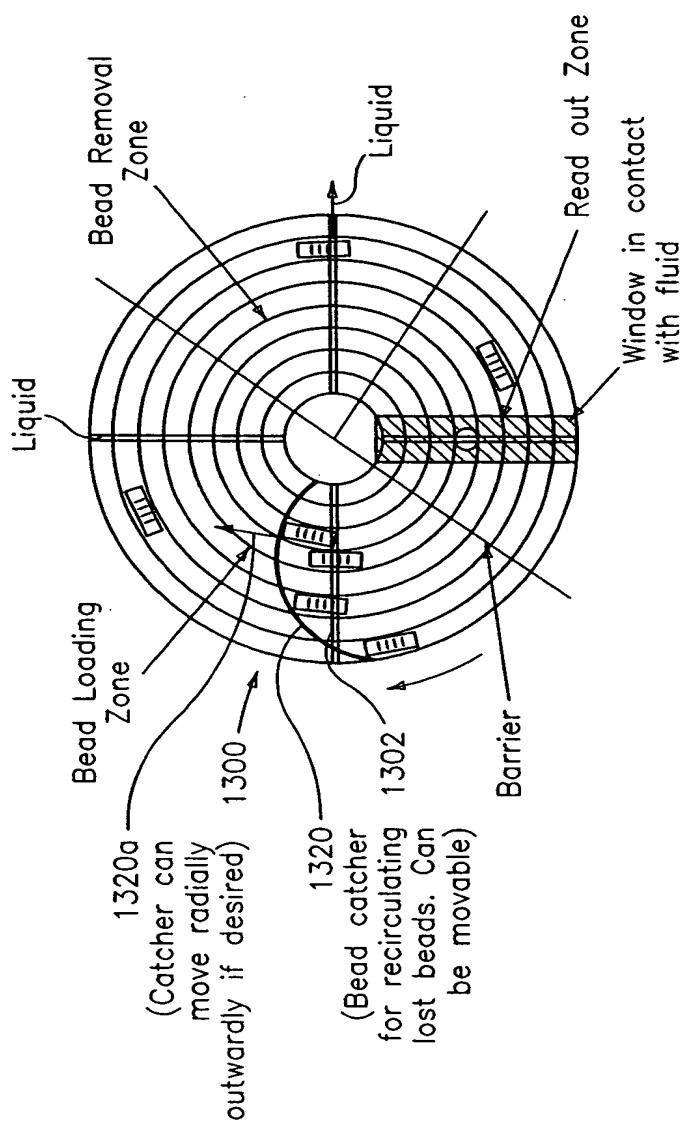


FIG. 20(a)

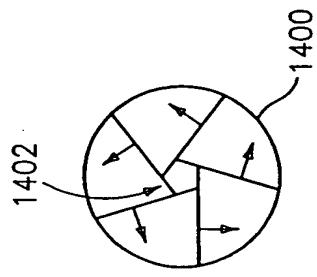


FIG. 20(b)

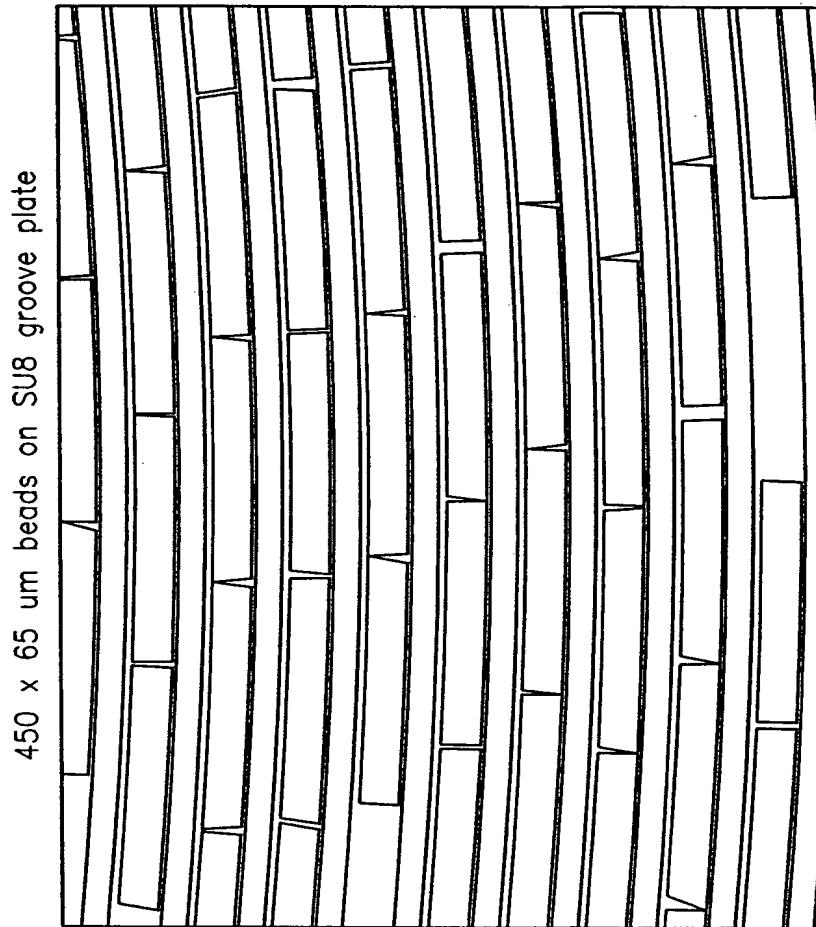


FIG. 21

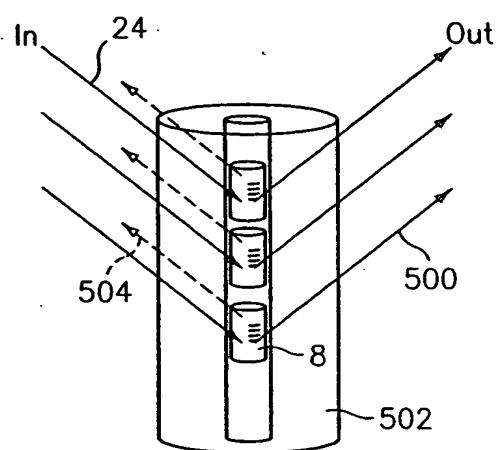


FIG. 22

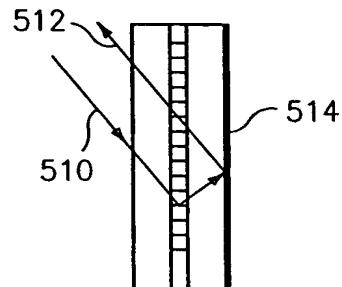


FIG. 49

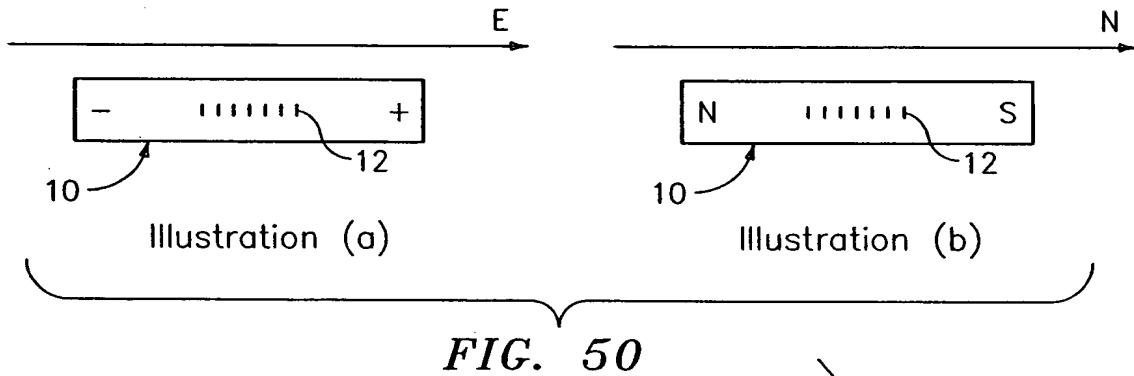


FIG. 50



FIG. 51

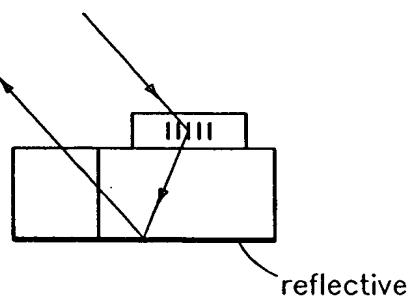


FIG. 52

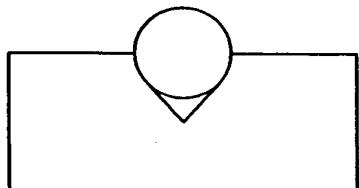


FIG. 53

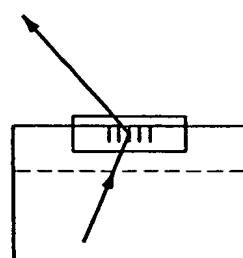


FIG. 54

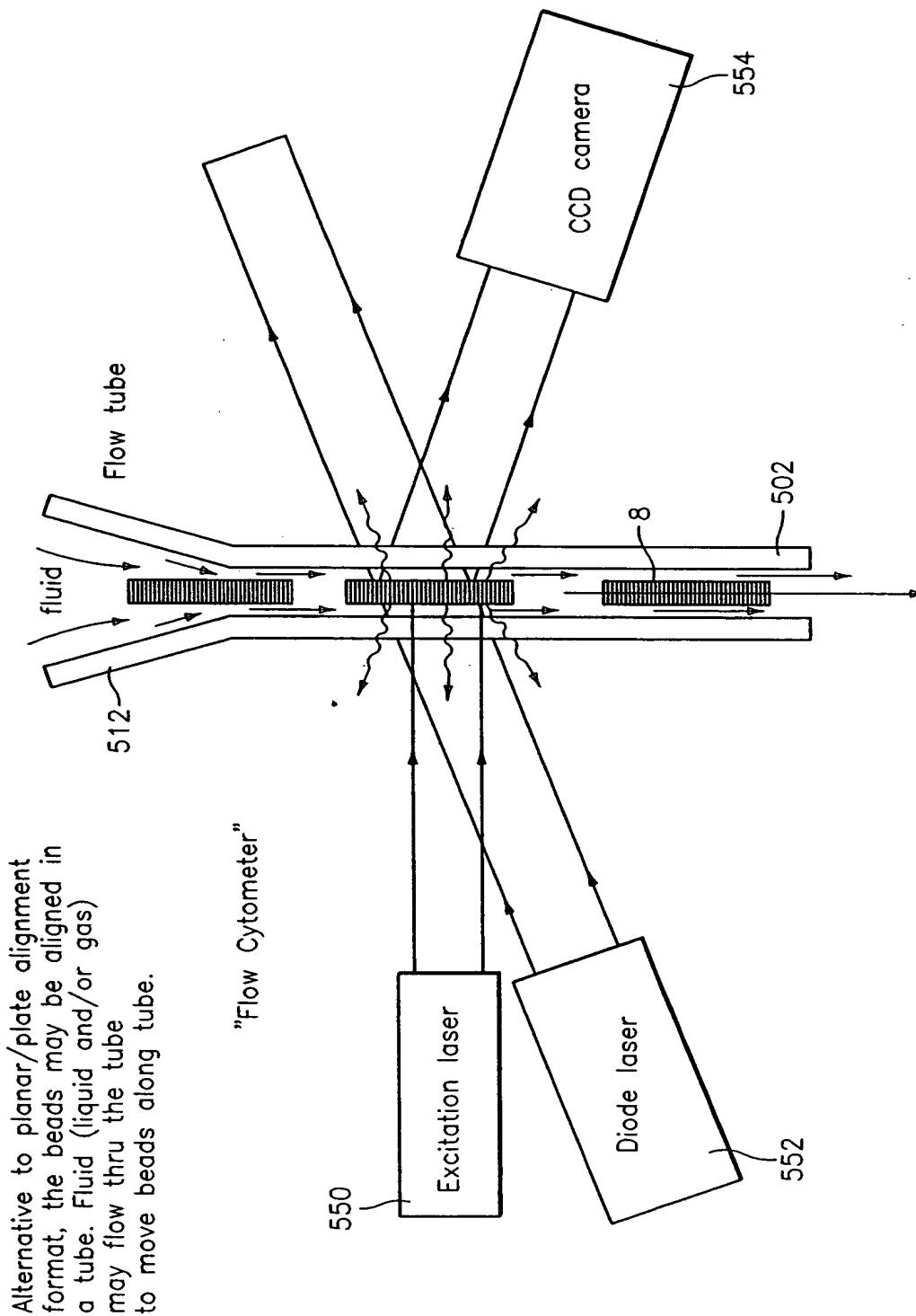


FIG. 23

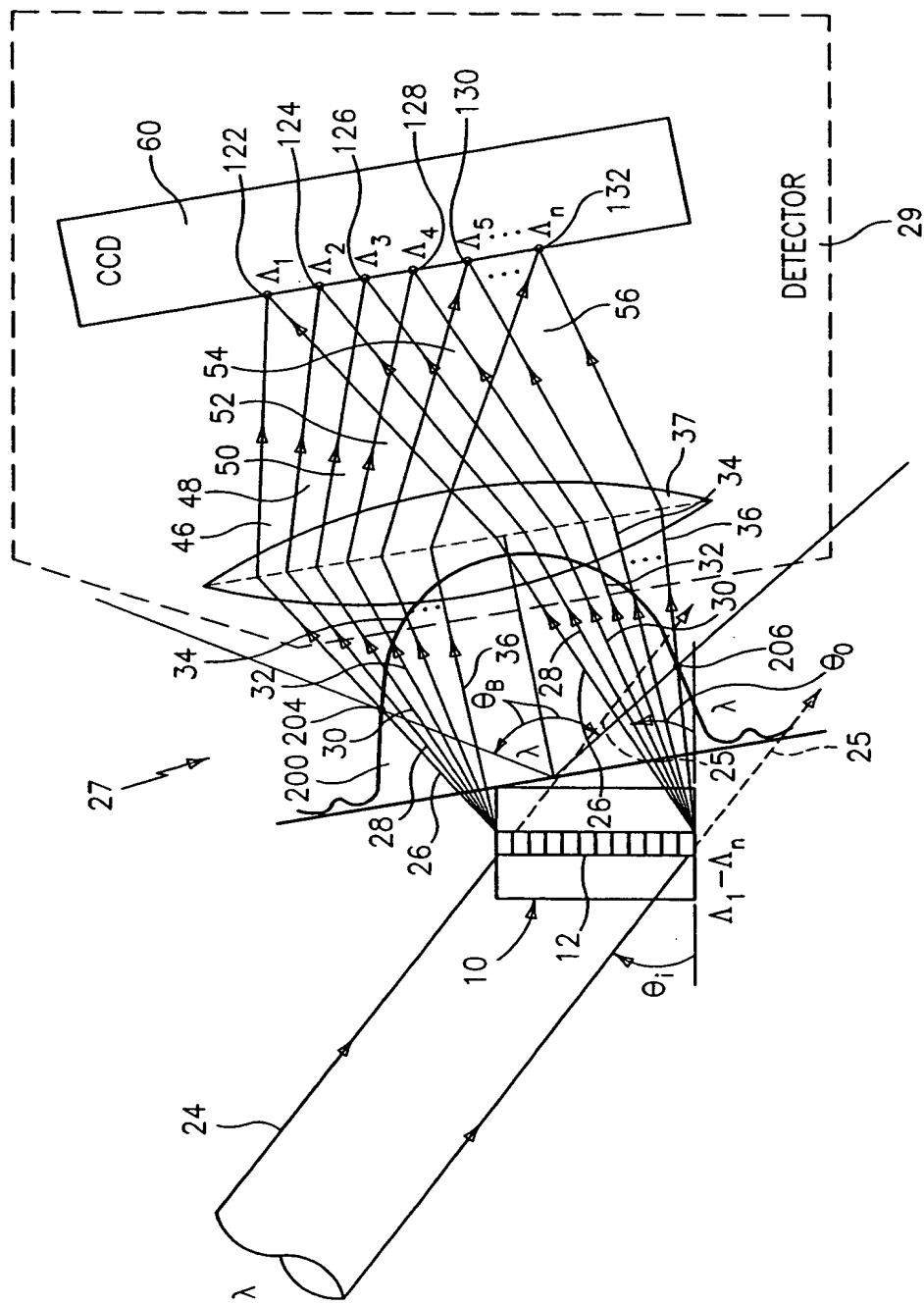


FIG. 24

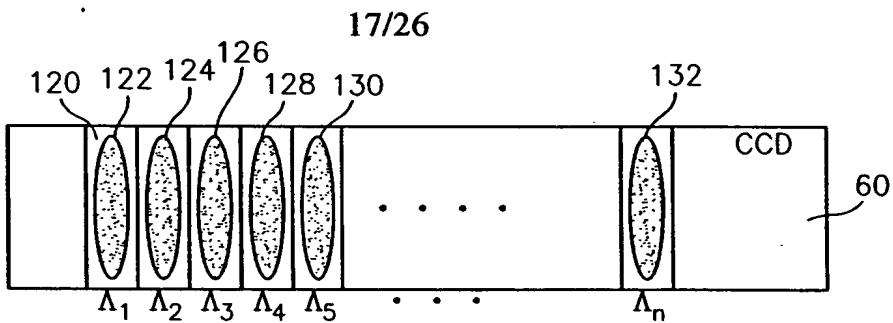


FIG. 25(a)

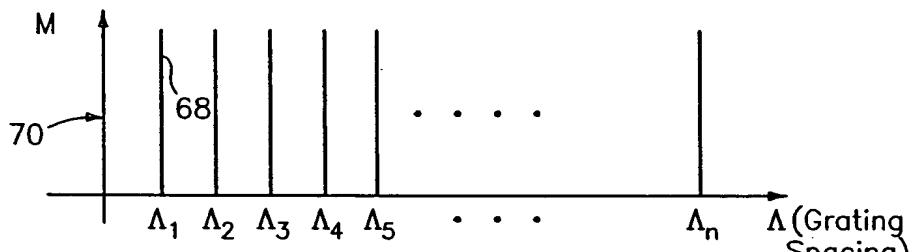


FIG. 25(b)

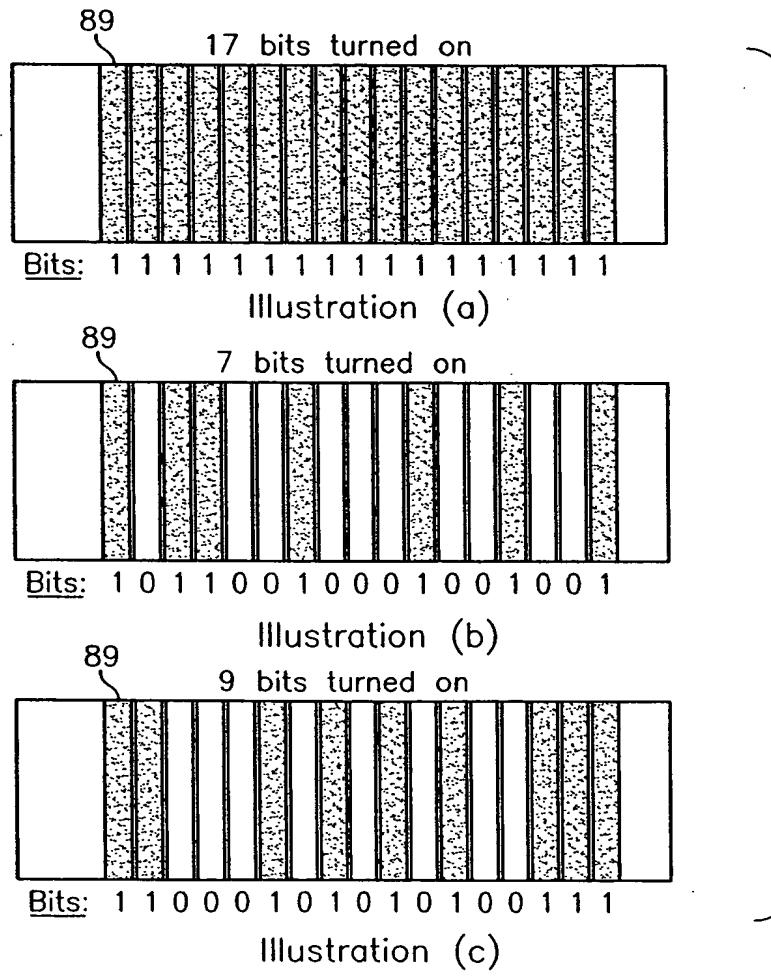


FIG. 26

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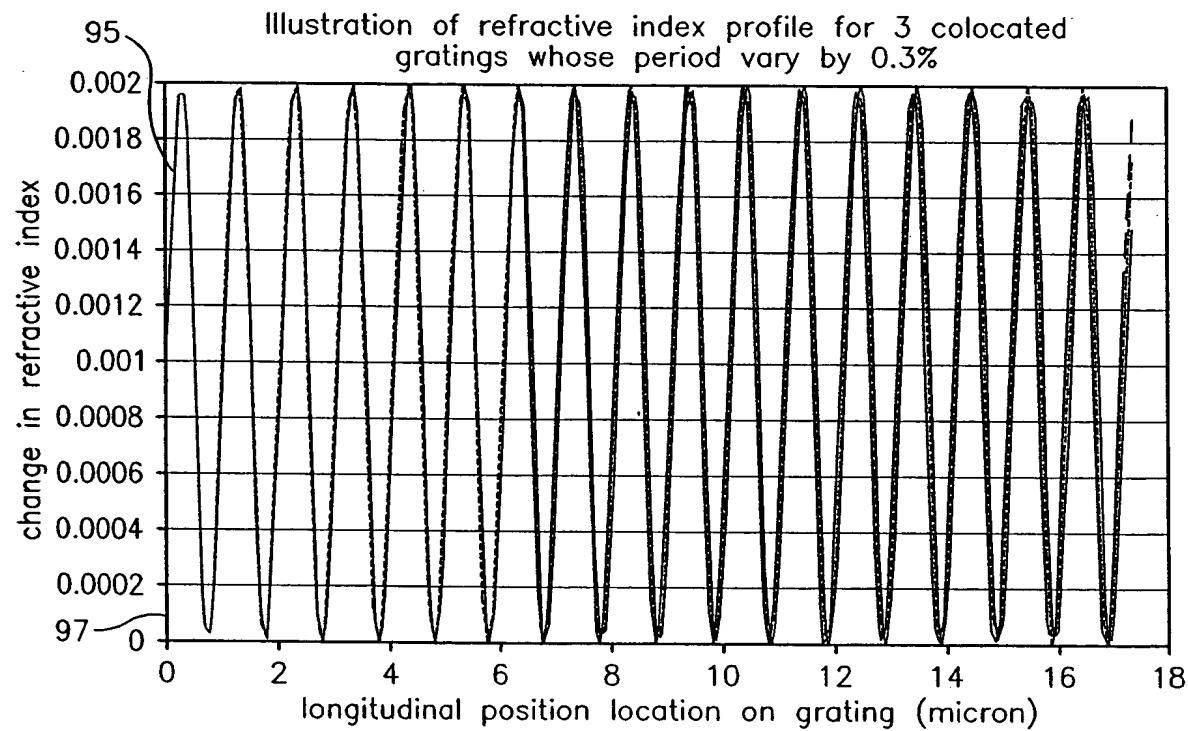
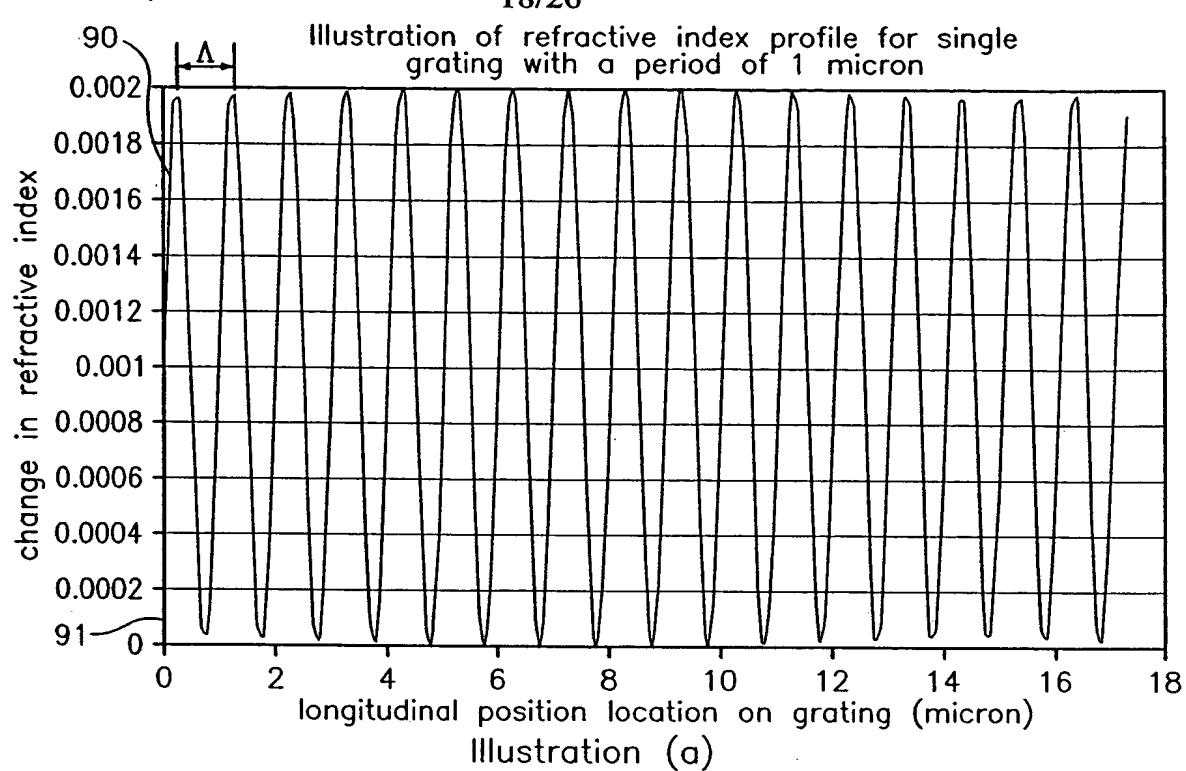


FIG. 27

--- grating 1 ----- grating 2 —— grating 3

Illustration (c)

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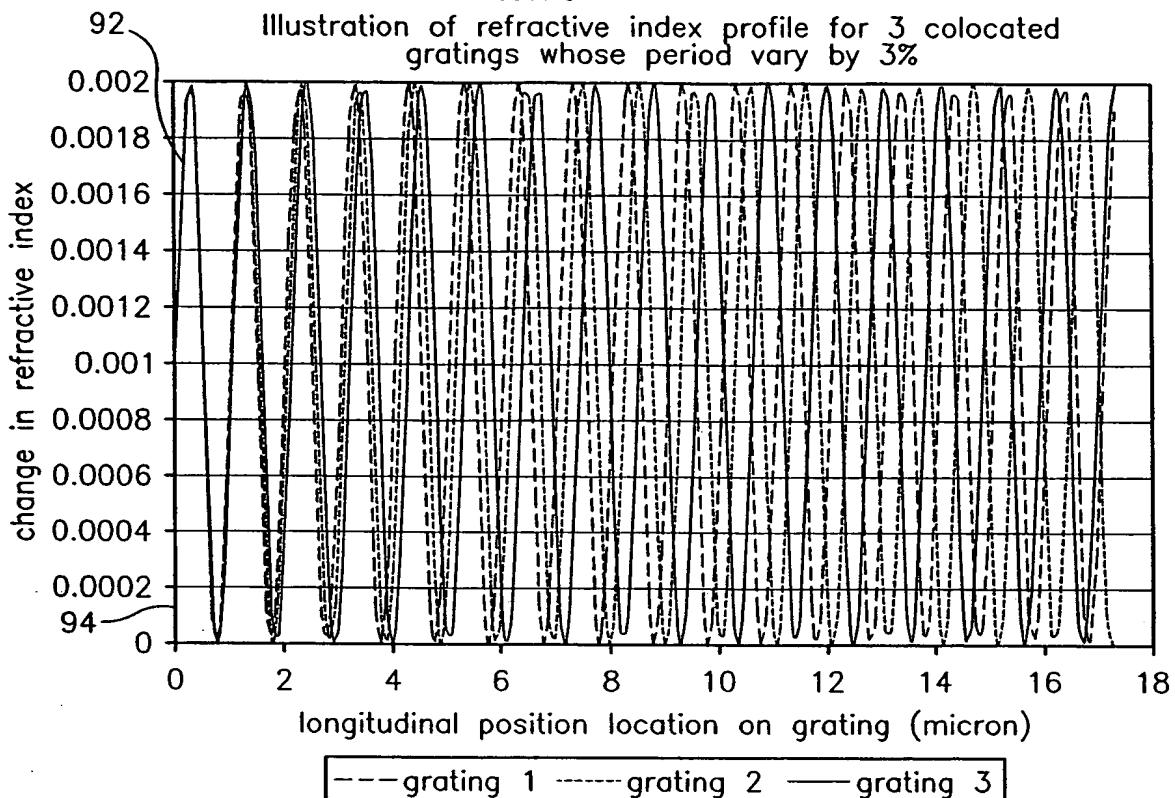


Illustration (b)

Index modulation caused by superposition of 3 gratings where the pitch between each grating varies by 3%.

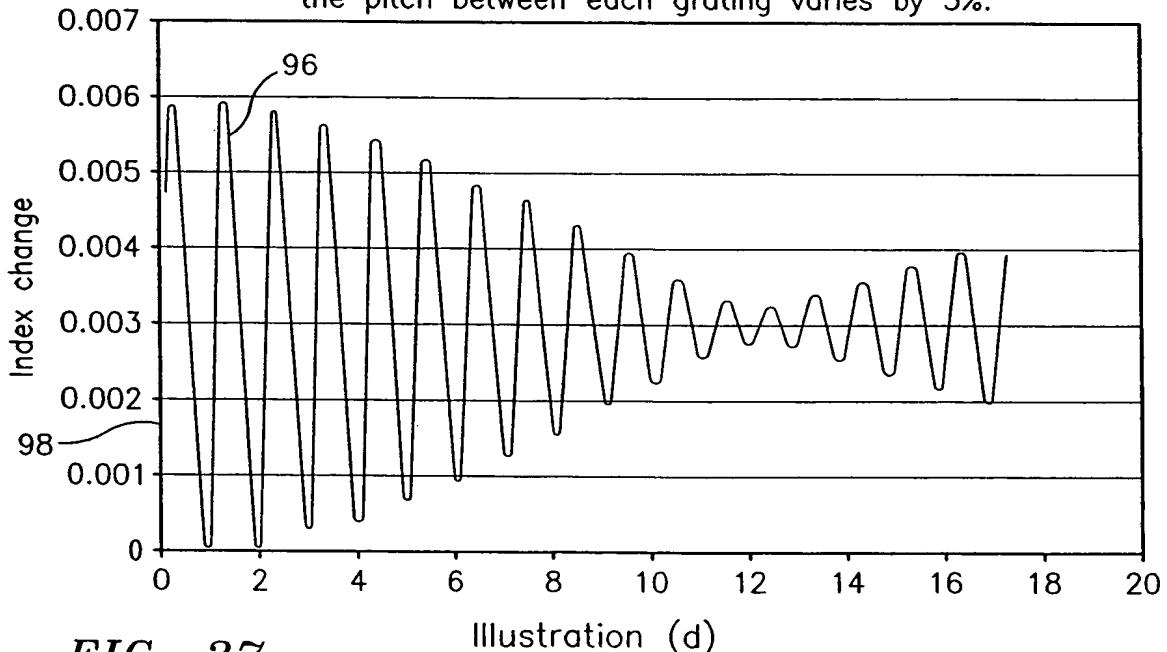


FIG. 27

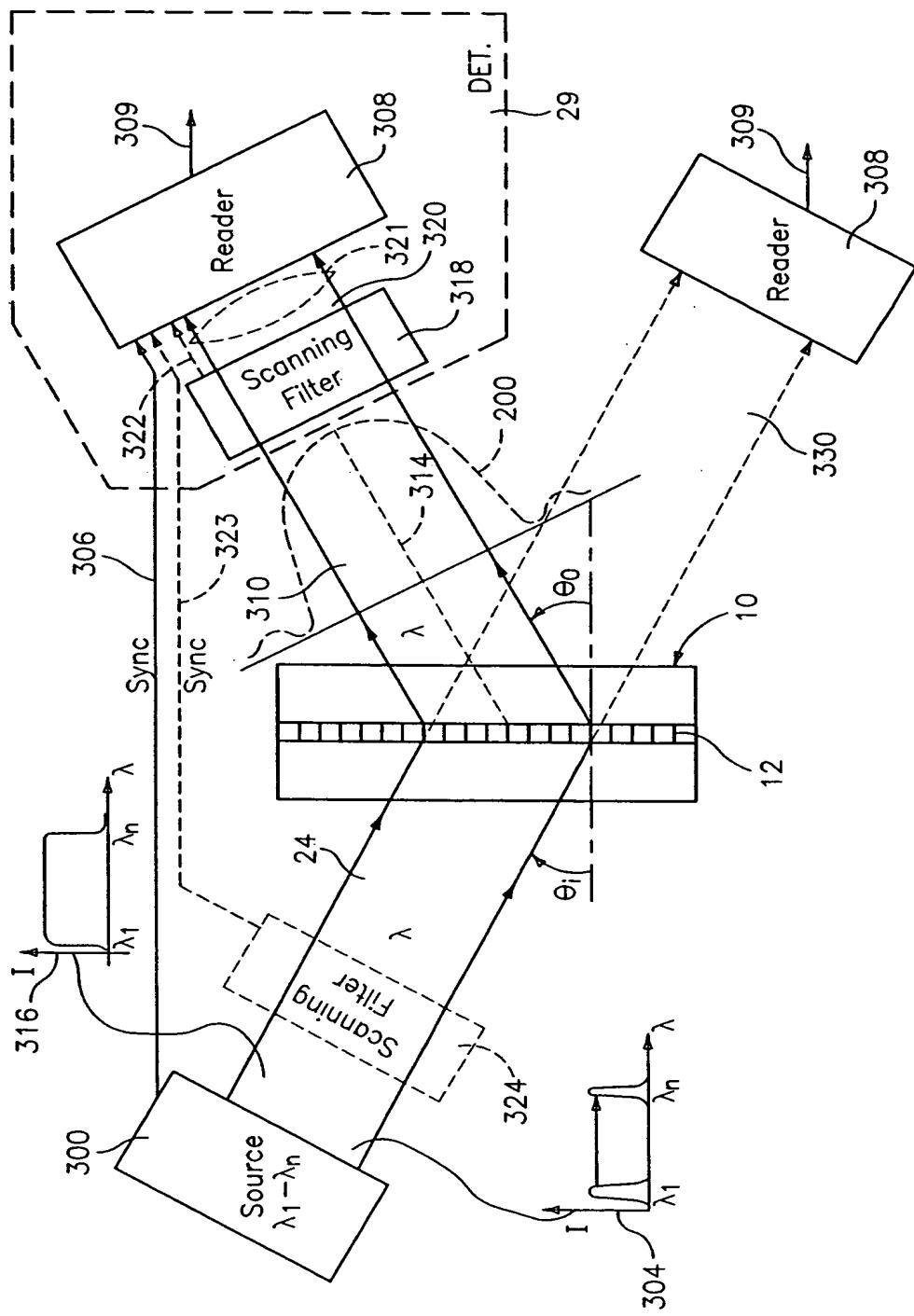
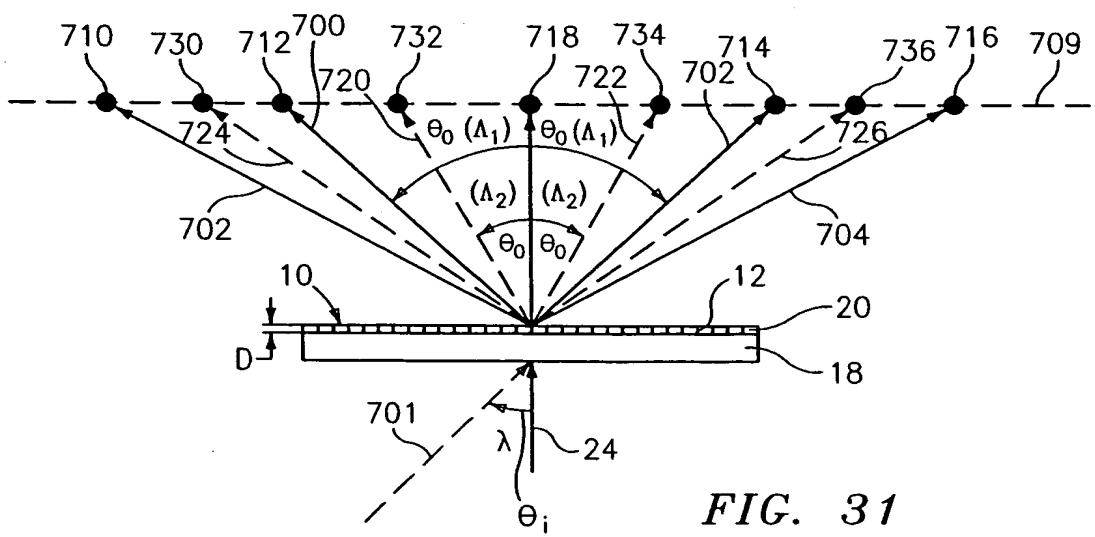
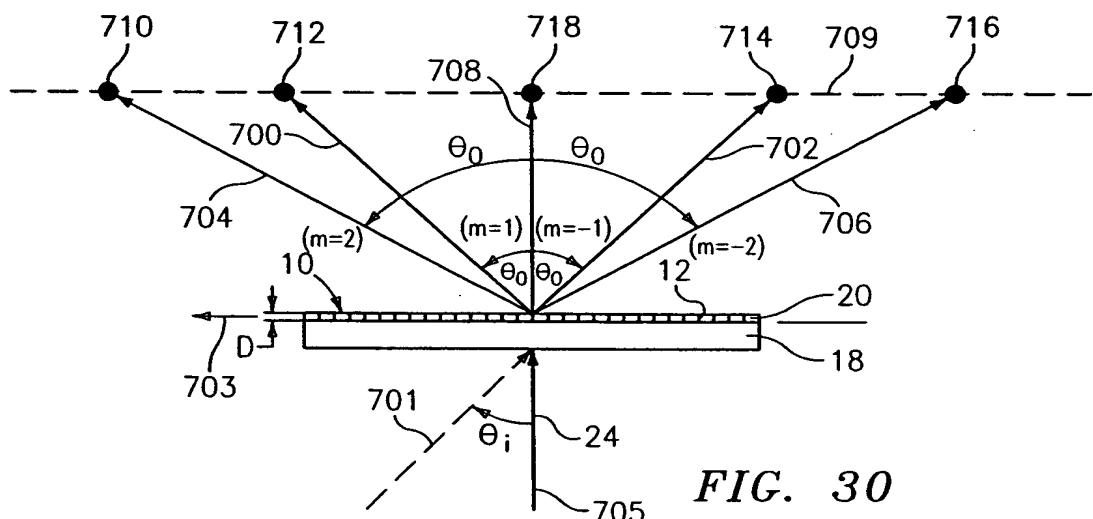
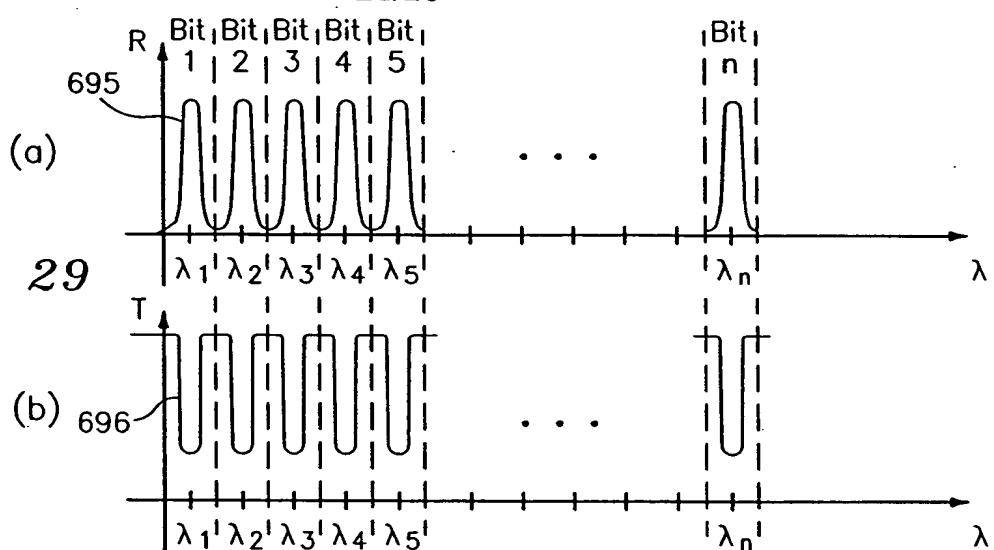


FIG. 28

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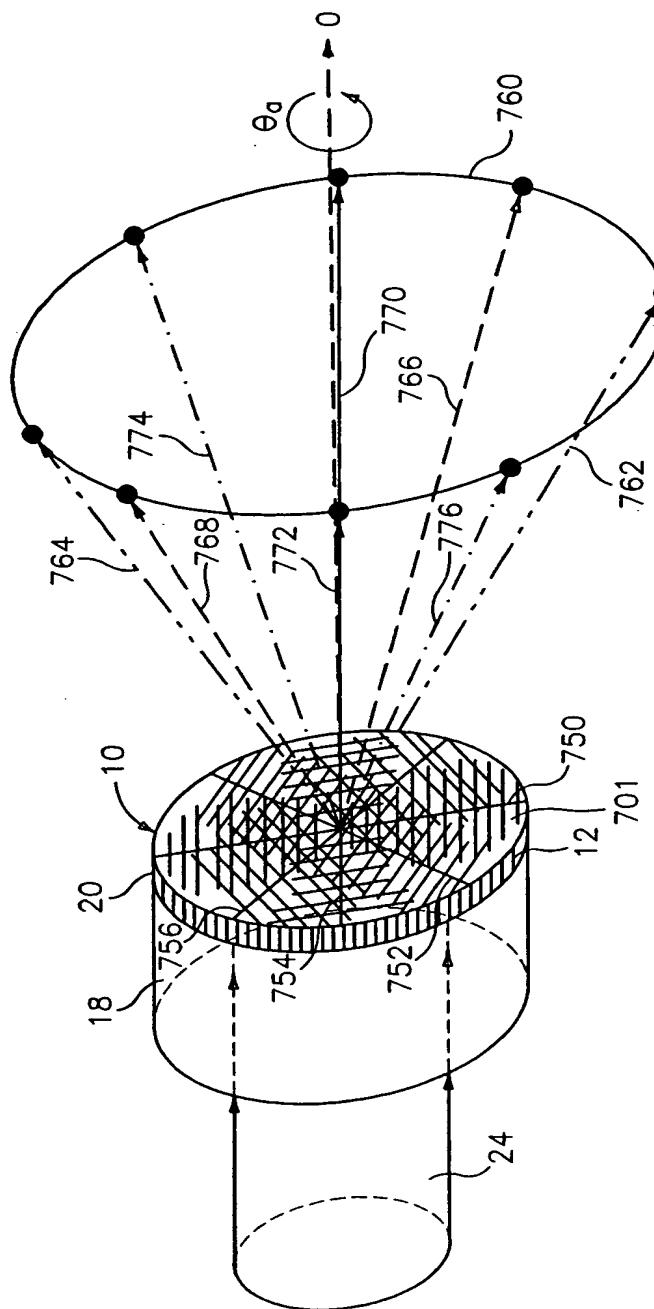


FIG. 32

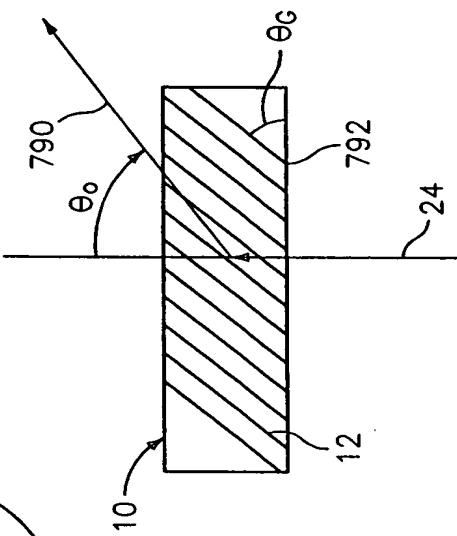


FIG. 33

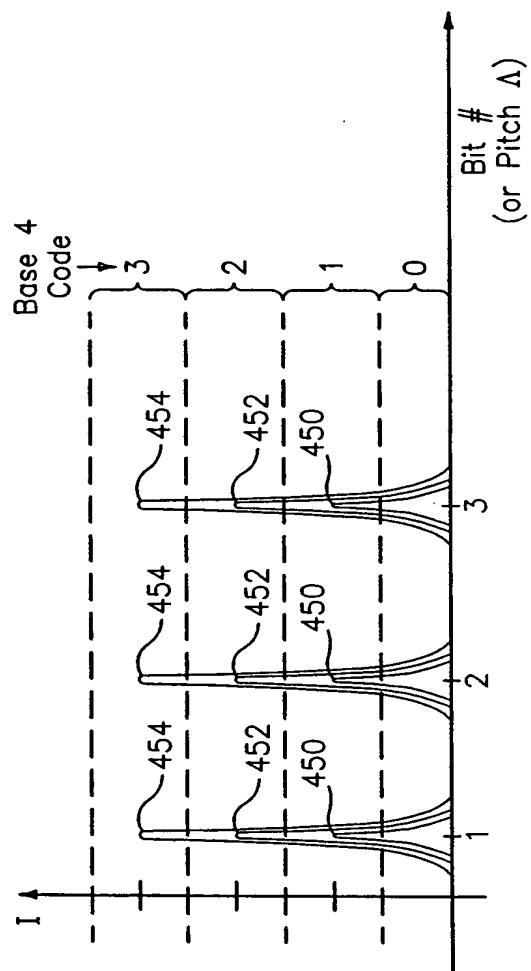


FIG. 34

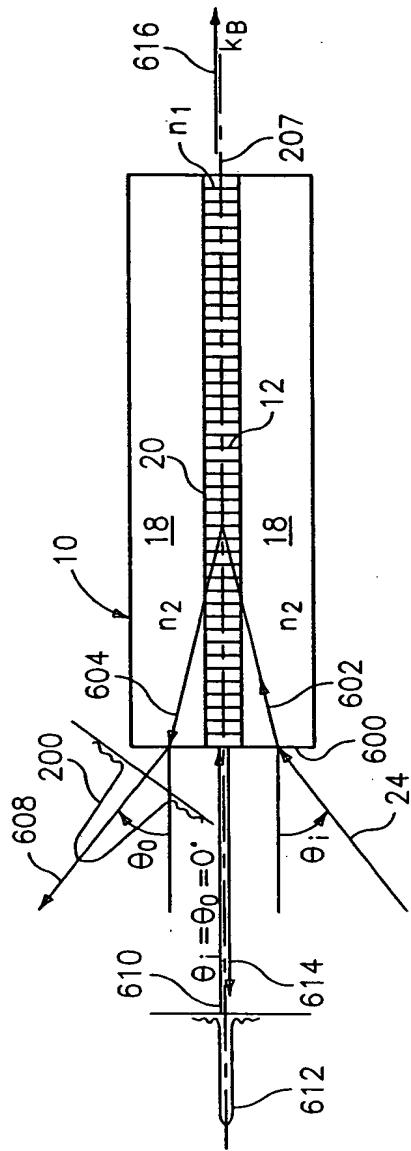


FIG. 35

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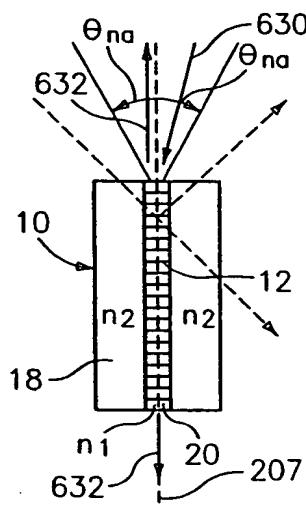


FIG. 36

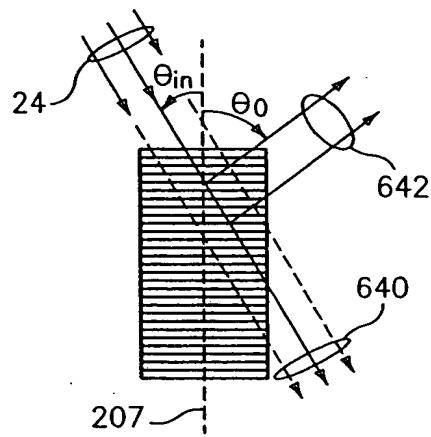
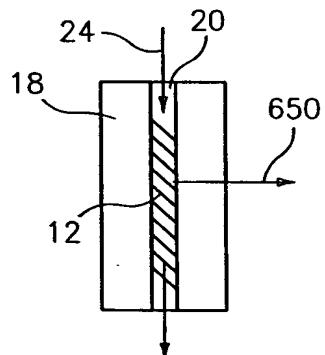
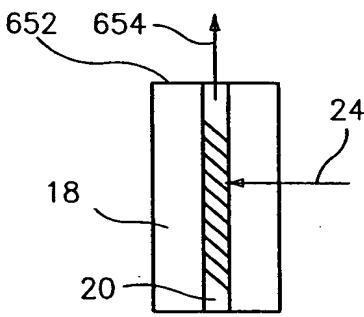


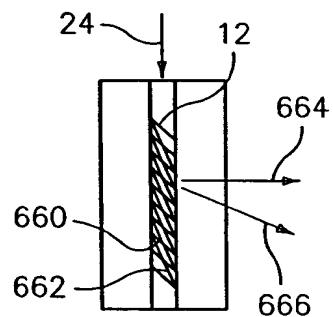
FIG. 37



Illustration(a)



Illustration(b)



Illustration(c)

FIG. 38

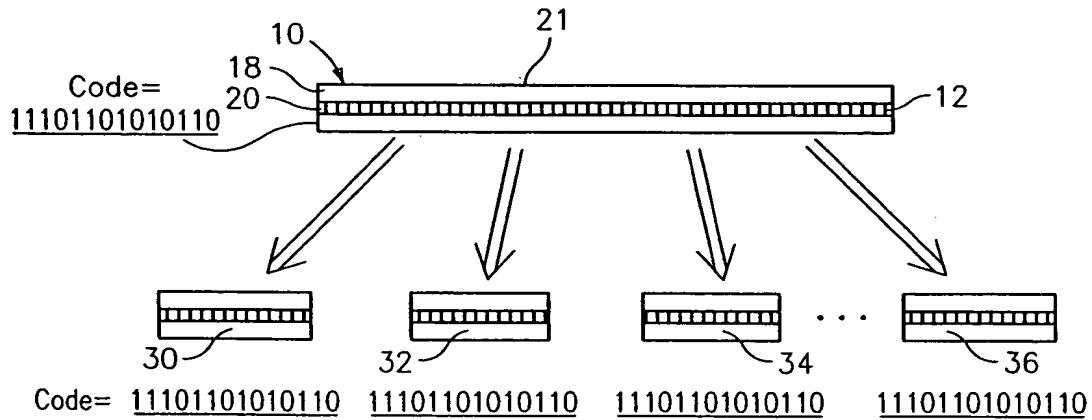
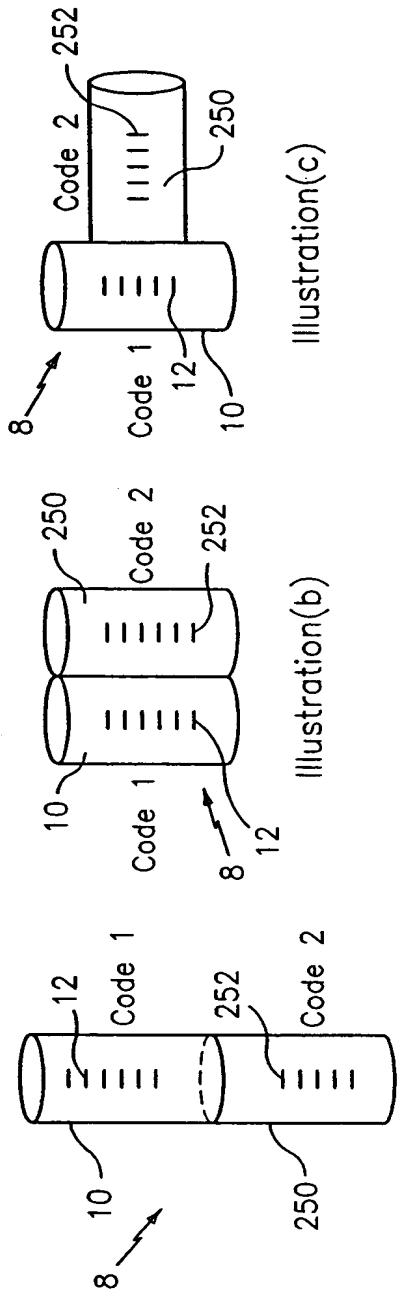


FIG. 40



Illustration(a)

FIG. 42

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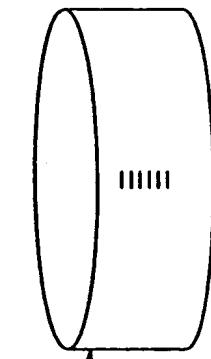


FIG. 44

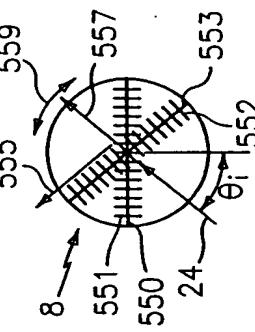


FIG. 45

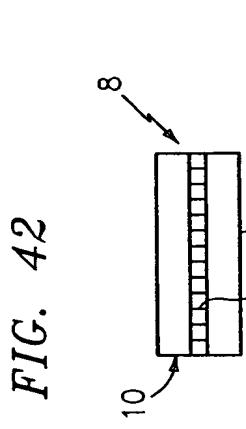


FIG. 39

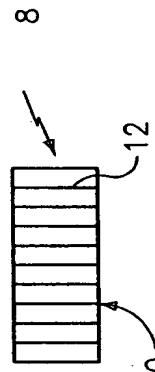
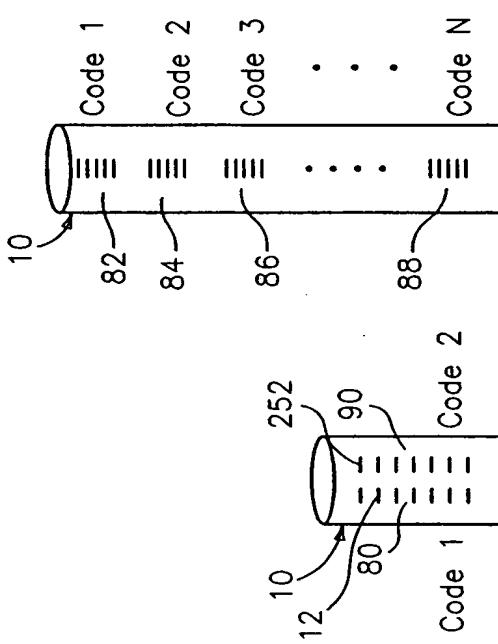


FIG. 41



Illustration(b)

Illustration(a)

FIG. 43

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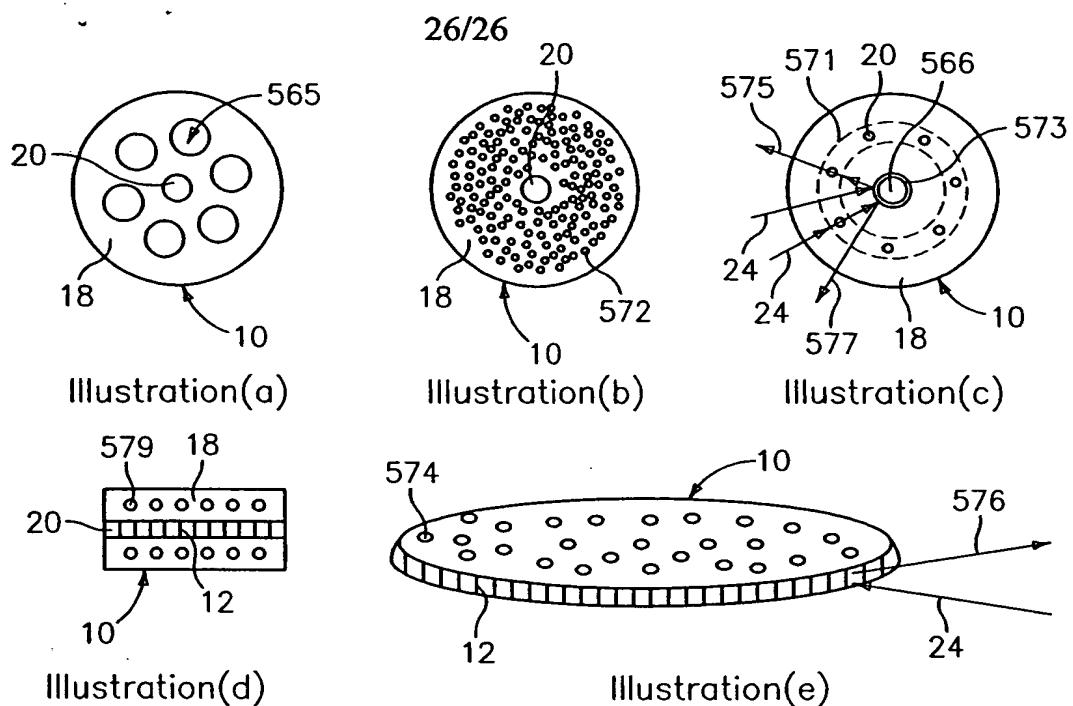


FIG. 46

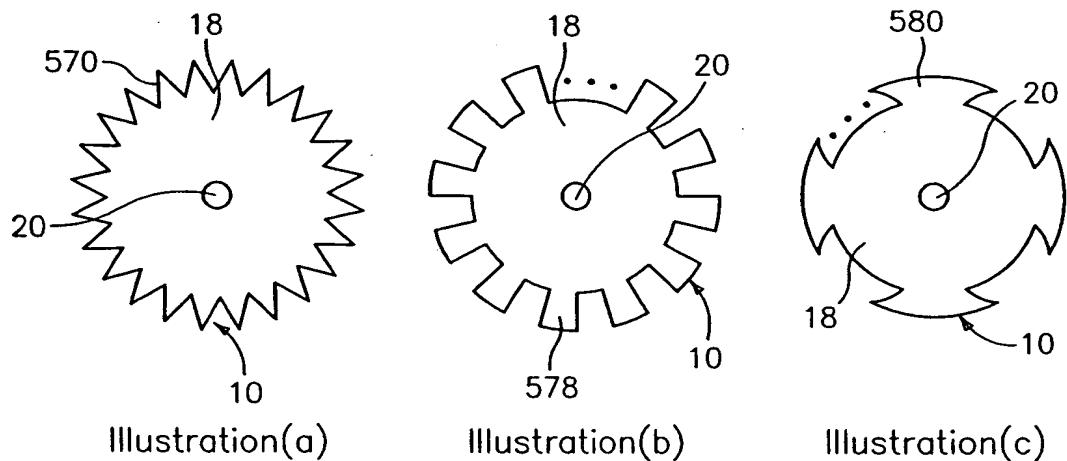


FIG. 47

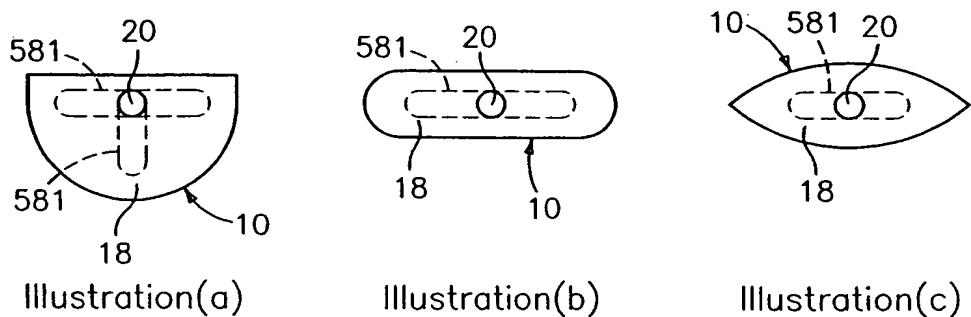


FIG. 48